

AMENDMENTS TO THE CLAIMS

This listing of claim will replace all prior versions and listings of claim in the application.

1. – 6. (cancelled)
7. (currently amended) ~~A shearwall as recited in claim 1, further comprising~~ A shearwall, comprising:
a central diaphragm, including
a top edge and a bottom edge generally defining a height of said central diaphragm,
first and second ends, extending between the top and bottom edges, generally
defining a width of said central diaphragm,
a corrugated section extending at least partially between said top edge and said
bottom edge in between said first and second ends, said corrugated section forming at least
one corrugation; and
a channel in which said central diaphragm is seated.
8. (original) A shearwall as recited in claim 7, further comprising a sill plate affixed to a bottom edge of said channel and having a footprint at least as large as the combined footprint of said channel and said first and second chords together.
9. (currently amended) ~~A shearwall as recited in claim 1,~~ A shearwall, comprising:
a central diaphragm, including
a top edge and a bottom edge generally defining a height of said central diaphragm,
first and second ends, extending between the top and bottom edges, generally
defining a width of said central diaphragm, and
a corrugated section extending at least partially between said top edge and said
bottom edge in between said first and second ends, said corrugated section forming at least
one corrugation, said at least one corrugation being defined by a pair of angled sections
extending along said height dimension from a first plane at a back edge of the central
diaphragm and angling inward toward each other, said angled sections terminating in a

second plane at a front edge of the central diaphragm, and said at least one corrugation further being defined by a front planar section in said second plate and extending between said pair of angled sections.

10. (cancelled)

11. (currently amended) ~~A shearwall as recited in claim 1;~~ A shearwall, comprising:
a central diaphragm, including
a top edge and a bottom edge generally defining a height of said central diaphragm,
first and second ends, extending between the top and bottom edges, generally
defining a width of said central diaphragm, and
a corrugated section extending at least partially between said top edge and said
bottom edge in between said first and second ends, said corrugated section forming at least
one corrugation, said at least one corrugation extending from said bottom edge and terminating at a position between said bottom edge and said top edge.

12. – 13. (cancelled)

14. (currently amended) ~~A shearwall as recited in claim 1, said central diaphragm including~~ A
shearwall, comprising:
a central diaphragm, including
a top edge and a bottom edge generally defining a height of said central diaphragm,
first and second ends, extending between the top and bottom edges, generally
defining a width of said central diaphragm,
a corrugated section extending at least partially between said top edge and said
bottom edge in between said first and second ends, said corrugated section forming at least
one corrugation; and
at least one embossment.

15. (currently amended) ~~A shearwall as recited in claim 1, said central diaphragm including~~ A shearwall, comprising:

a central diaphragm, including

a top edge and a bottom edge generally defining a height of said central diaphragm, first and second ends, extending between the top and bottom edges, generally defining a width of said central diaphragm,

a corrugated section extending at least partially between said top edge and said bottom edge in between said first and second ends, said corrugated section forming at least one corrugation; and

at least one stiffening lip.

16. (cancelled)

17. (currently amended) ~~A shearwall as recited in claim 16, further comprising~~ A shearwall, comprising a central diaphragm having a height, width and depth, each being perpendicular to each other, and a corrugation extending in the direction of said height of said central diaphragm;

first and second chords affixed to said central diaphragm at opposed edges of said central diaphragm and extending in the direction of said height of said central diaphragm;

a sill plate affixed to a bottom of the shearwall, said sill plate having a footprint at least as large as said central diaphragm and said first and second chords together; and

a channel in which said central diaphragm resides.

18. (original) A shearwall as recited in claim 17, said sill plate having a width greater than that of said channel.

19. -23. (cancelled)

24. (original) A shearwall, comprising:

a central diaphragm having a top edge and a bottom edge defining a height of said central diaphragm, first and second end sections defining a width of the central diaphragm, and a front plane and a rear plane defining a depth of said central diaphragm, said central diaphragm including:

a pair of rear planar sections extending at least part way between said top and bottom edges and being adjacent, respectively, to said first and second end sections, said pair of rear planar sections having a surface residing generally in said rear plane,

a pair of angled sections extending at least part way between said top and bottom edges and being adjacent, respectively, to said pair of rear planar sections, said pair of angled sections extending from said rear plane toward said front plane and angling toward each other, and

a front planar section extending at least part way between said top and bottom edges and being adjacent said pair of angled sections, said front planar section having a surface residing generally in said front plane.

25. (original) A shearwall as recited in claim 24, further comprising first and second chords affixed one each to said first and second end sections.
26. (original) A shearwall as recited in claim 24, further comprising a sill plate affixed to a bottom of the shearwall.
27. (original) A shearwall as recited in claim 24, first and second intersection lines being defined between said pair of rear planar sections and said pair of angled sections, said first and second intersection lines being parallel to each other.
28. (original) A shearwall as recited in claim 24, first and second intersection lines being defined between said pair of rear planar sections and said pair of angled sections, said first and second intersection lines angling in toward each other from said bottom edge to said top edge of said central diaphragm.
29. (original) A shearwall as recited in claim 24, first and second intersection lines being defined between said pair of rear planar sections and said pair of angled sections, said first and second intersection lines angling away from each other from said bottom edge to said top edge of said central diaphragm.

30. (currently amended) A shearwall as recited in claim ~~30~~ 24, said first and second intersection lines extending from said bottom edge to said top edge of said central diaphragm.
31. (original) A shearwall as recited in claim 30, said first and second intersection lines originating at said bottom edge and terminating between said top and bottom edges.
32. (original) A shearwall as recited in claim 24, a first intersection line being defined between a first of said angled sections and said front planar section, and a second intersection line being defined between a second of said angled sections and said front planar section, said first and second intersection lines being parallel to each other.
33. (original) A shearwall as recited in claim 24, a first intersection line being defined between a first of said angled sections and said front planar section, and a second intersection line being defined between a second of said angled sections and said front planar section, said first and second intersection lines angling in toward each other from said bottom edge to said top edge of said central diaphragm.
34. (original) A shearwall having a length between a top and bottom of the shearwall, comprising:
a first member extending in the length direction between a top and bottom of the shearwall, the first member including at least a first corrugation;
a second member extending in the length direction between the top and bottom of the shearwall, the second member including at least a second corrugation; and
a central section of variable width in a direction transverse to the length of the shearwall for affixing the first member to the second member.
35. (original) A shearwall as recited in claim 34, where in the central section is a single unitary section extending at least partially between the top and bottom of the shearwall
36. (original) A shearwall as recited in claim 34, where in the central section is comprised of a plurality of piece of sections positioned between the top and bottom of the shearwall.

37. (original) A shearwall as recited in claim 34, where in the central section is welded to the first and second members.